



Penta Laboratories, Inc.

21113 SUPERIOR STREET • CHATSWORTH • CALIFORNIA 91311
(800) 421-4219 • (818) 882-3872 • Fax: (818) 882-3968

6C33C-B

Power Triode

The 6C33C-B is a power triode designed for use as a series voltage regulator. The 6C33C-B has very high perveance and very high transconductance. It has high current capabilities, making it suitable for Output Transformerless audio power amplifiers.

General Data

Heater Characteristics

Heater voltage.....6.3 or 12.6 ac or dc
Heater current.....6.4 or 3.3 amps

Direct Interelectrode Capacitances

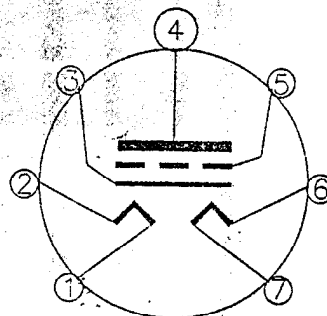
Input.....30.0 pf
Output.....10.5 pf
Transfer.....31.0 pf

Mechanical Data

Mounting position.....Vertical
Overall length.....5.25" (max)
Seated height.....4.75" (max)
Diameter.....2.5" (avg)
Base.....Septar

Pin Arrangement

Pin 1...Heater
Pin 2...Heater
Pin 3...Cathode
Pin 4...Anode
Pin 5...Grid 1
Pin 6...Heater
Pin 7...Heater



Absolute Maximum Ratings

Anode voltage.....	400
Anode dissipation.....	60 watts
Cathode current.....	600 milliamps
Heater to cathode.....	+300 volts
Maximum grid 1 resistance.....	200,000 ohms

Typical Characteristics

Anode voltage.....	120
Cathode resistor.....	35 ohms
Anode current.....	550 milliamps
Transconductance(Gm).....	40000 micromhos
Anode resistance.....	80 ohms

Typical Operation

Audio Frequency Power Amplifier

Push-Pull Class A Fixed Bias

Values are for Two Tubes

Anode voltage.....	200
Grid 1 voltage.....	-65
Zero signal anode current.....	480 milliamps
Maximum signal anode current.....	480 milliamps
Peak grid 1 voltage.....	65
Zero signal anode dissipation.....	96 watts
Maximum signal anode dissipation.....	40 watts
Effective load.....	800 ohms
Power output.....	55 watts

